REDUCING THE RESOLUTION OF MEDIA DATA

ABSTRACT OF THE INVENTION

A method and system for reducing the resolution of media data. Input
data at a first resolution are received from a source. The input data are
compressed. The input data can be downsampled to generate compressed
downsampled data at a reduced resolution. The compressed downsampled
data can be used to generate a frame at the reduced resolution. When the
frame is needed as a reference for another frame, the compressed
downsampled data can be decoded to generate decompressed
downsampled data at the reduced resolution. The decompressed
downsampled data can be upsampled to generate decompressed
downsampled data can be upsampled to generate a decompressed
downsampled data can be upsampled to generate decompressed
downsampled data at the reduced resolution. Thus, a larger amount of data
can be processed while the data are compressed. As such, data processing
operations such as transcoding can be accomplished quickly and effectively
while saving computing resources.